

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number:

0746952504

Status:

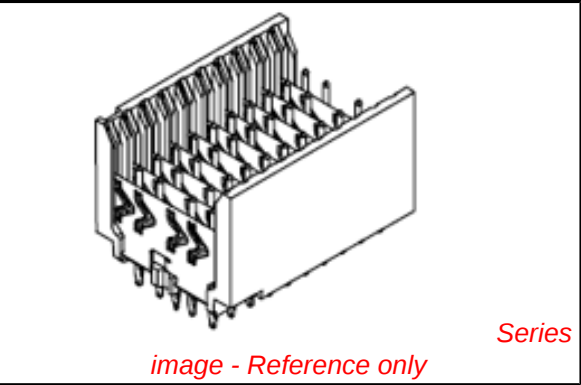
Active

Overview:

vhdm__hsd

Description:

2.00mm (.079") Pitch 5-Row VHDM-HSD™ Backplane Header, Open Module, 100 Circuits, Pin Length 5.15mm (.203")



Documents:

Drawing (PDF)

RoHS Certificate of Compliance (PDF)

Agency Certification	
CSA	LR19880
General	
Product Family	Backplane Connectors
Series	74695
Application	Backplane
Application Tooling Documents	Tooling Manual
Comments	Open Header
Component Type	PCB Header
Overview	vhdm__hsd
Product Name	VHDM-HSD™
Style	N/A
Physical	
Circuits (Loaded)	100
Circuits (maximum)	100
Color - Resin	Black
Durability (mating cycles max)	200
First Mate / Last Break	No
Flammability	94V-0
Guide to Mating Part	No
Keying to Mating Part	None
Material - Metal	High Performance Alloy (HPA)
Material - Plating Mating	Gold
Material - Plating Termination	Tin-Lead
Material - Resin	High Temperature Thermoplastic
Number of Columns	25
Number of Pairs	Open Pin Field
Number of Rows	5
Orientation	Vertical
PCB Retention	None
PCB Thickness Recommended (in)	0.070 In
PCB Thickness Recommended (mm)	1.80 mm
Packaging Type	Tube
Pitch - Mating Interface (in)	0.079 In
Pitch - Mating Interface (mm)	2.00 mm
Plating min: Mating (µin)	30
Plating min: Mating (µm)	0.75
Plating min: Termination (µin)	30
Plating min: Termination (µm)	0.75
Polarized to PCB	Yes
Surface Mount Compatible (SMC)	Yes
Temperature Range - Operating	-55°C to +105°C
Termination Interface: Style	Through Hole - Compliant Pin

EU RoHS

RoHS Compliant by Exemption

REACH SVHC

Not Reviewed

Halogen-Free

Status

Not Reviewed

China RoHS



Pb

Need more information on product environmental compliance?

Email productcompliance@molex.com

For a multiple part number RoHS Certificate of Compliance, [click here](#)

Please visit the [Contact Us](#) section for any non-product compliance questions.

Search Parts in this Series

74695Series

Mates With

74670 HSD Daughtercard

Application Tooling FAQ	
Tooling specifications and manuals are found by selecting the products below. Crimp Height Specifications are then contained in the Application Tooling Specification document.	
Global	
Description	Product #
VHDM® Signal Pin Inserter Repair Tool	0622015700
VHDM® 5 Row and Shield Repair Tool	0622015810
VHDM® 5 Row Shield Extraction Tool	0622016010
VHDM-HSD™ Signal Header, 5 Row by	0622020202

Electrical

Current - Maximum per Contact	1A
Data Rate	5.0 Gbps
Shielded	Yes
Voltage - Maximum	120V AC (RMS)/DC

25 Wide, 50.00mm
(1.97")

Material Info

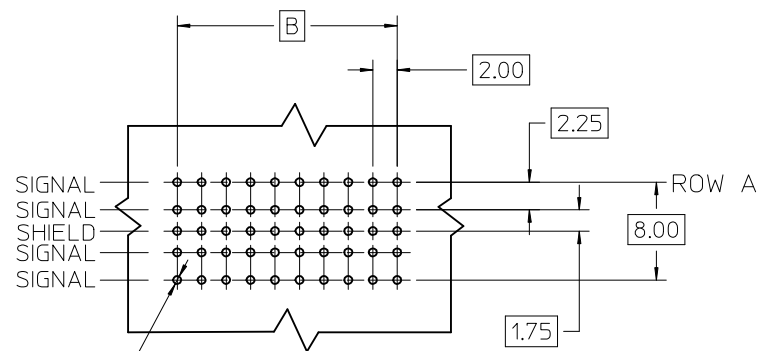
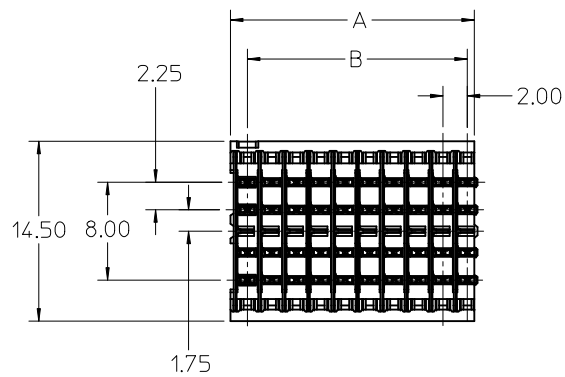
Reference - Drawing Numbers

Packaging Specification	PK-74695-003
Sales Drawing	SD-74695-002

VHDM-HSD is a trademark of Amphenol Corporation

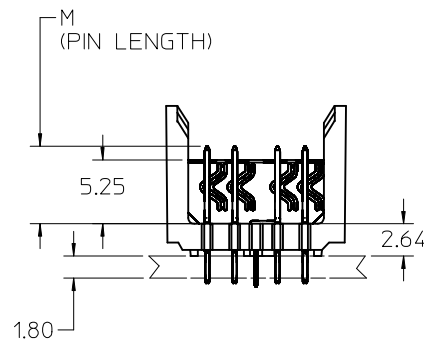
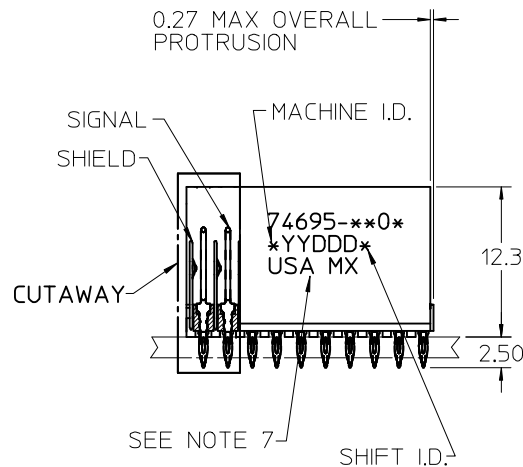
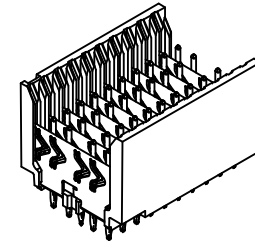
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$\phi 0.66$ DRILL
 $\phi 0.56 \pm 0.05$ PTH
 $\phi 1.00$ PAD
 $\phi 0.10$

BACKPLANE HOLE PATTERN RECOMMENDED DIMENSION



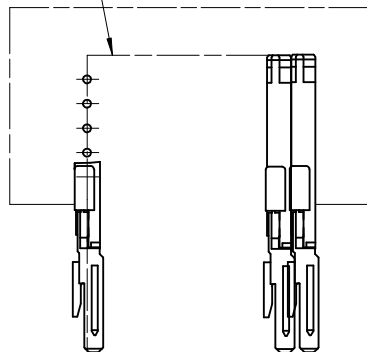
NOTES:

1. MATERIAL: HOUSING -LIQUID CRYSTAL POLYMER (LCP). GLASS-FILLED. UL 94 V-0. COLOR BLACK. SIGNAL & SHIELD -COPPER ALLOY.
2. FINISHES: SELECTIVE GOLD (Au) ON CONTACT AREA. SELECTIVE TIN/LEAD (Sn/Pb) OR SELECTIVE MATTE TIN (Sn) ON PCB TAILS. NICKEL (Ni) OVERALL.
3. THIS PART CONFORMS TO MOLEX PRODUCT SPECIFICATION PS-74031-999.
4. FOR MIXED CONTACT MATING LENGTHS CONSULT MOLEX FOR AVAILABILITY.
5. FOR SPECIFIC PART NUMBER AND MATING INFORMATION REFER TO SHEET 2.
6. PACKAGE PER PK-74695-003.
7. EITHER MARK PART NUMBER AND DATE CODE APPROXIMATELY WHERE SHOWN OR PLACE LABEL ON THE TUBE.

REVISED: ADD LEAD-FREE EC NO: UCP2006-4727 DRWN:CTHOMAS 2006/02/16 CHKD:JINGHAM 2006/02/16 APPR:KMULVEY 2006/02/16 D	DESCRIPTION REV	QUALITY SYMBOLS -0 -0	GENERAL TOLERANCES (UNLESS SPECIFIED)		SCALE 2.5:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION		REVISE ON CAD ONLY				
					DIMENSION STYLE MM ONLY		TITLE HSD SALES ASSEMBLY 5 ROW OPEN END BACKPLANE						
					DRAWN BY DATE								
			4 PLACES ± --- ± ---		MQWANG 2001/04/11		MOLEX MOLEX INCORPORATED						
			3 PLACES ± --- ± ---		CHECKED BY DATE								
			2 PLACES ± --- ± ---		NMARTIN 2001/04/14		MATERIAL NO.		DOCUMENT NO.		SHEET NO.		
1 PLACE ± --- ± ---		ANGULAR ±1/2°		APPROVED BY DATE		SEE SHT.2&3		SD-74695-002		1 OF 3			
		DRAFT WHERE APPLICABLE		CBIXLER 2001/04/14									
		MUST REMAIN WITHIN DIMENSIONS		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION								B	

10 9 8 7 6 5 4 3 2 74695

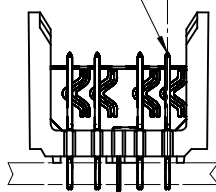
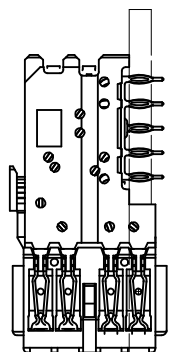
DAUGHTERCARD
CONNECTOR SIDE



0.41
SIGNAL TO
SIGNAL

0.75
TOP
DAUGHTERCARD
PCB TO CENTER
OF ROW A

ROW A



MATERIAL NUMBER ASSIGNMENT

74695-**-** SEE TABLES (SHEET 3)

NUMBER OF COLUMNS/PLATING

10 = 10 COLUMN TIN/LEAD
12 = 12 COLUMN TIN/LEAD
15 = 15 COLUMN TIN/LEAD
25 = 25 COLUMN TIN/LEAD
90 = 10 COLUMN MATTE TIN
92 = 12 COLUMN MATTE TIN
95 = 15 COLUMN MATTE TIN
85 = 25 COLUMN MATTE TIN

REVISED: ADD LEAD-FREE EC NO: UCP2006-1727 DRWN:CTHOMAS 2006/02/16 CHKD:JBINGHAM 2006/02/16 APPR:KMULVEY 2006/02/16 D	QUALITY SYMBOLS	DESCRIPTION	GENERAL TOLERANCES (UNLESS SPECIFIED)		SCALE 2.5:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION		REVISE ON CAD ONLY		
				mm	INCH	DIMENSION STYLE		TITLE			
			4 PLACES	± ---	± ---	MM ONLY					
			3 PLACES	± ---	± ---	DRAWN BY DATE					
			2 PLACES	± ---	± ---	MQWANG 2001/04/11					
			1 PLACE	± ---	± ---	CHECKED BY DATE					
			ANGULAR ±1/2°		NMARTIN 2001/04/14		molex MOLEX INCORPORATED				
			DRAFT WHERE APPLICABLE		APPROVED BY DATE		MATERIAL NO.		DOCUMENT NO.		
					CBIXLER 2001/04/14		SEE TABLES		SD-74695-002		
		REV	MUST REMAIN WITHIN DIMENSIONS		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION						B

PART NUMBER	COLUMN	NUMBER OF SIGNAL PINS	NUMBER OF SHIELDS	A	B	M	Au (um) THICKNESS	Sn/Pb (um)
74695-1001	10	40	10	20.00	18.00	4.75	0.76	0.76-1.52
74695-1006							1.27	
74695-1201	12	48	12	24.00	22.00		0.76	
74695-1206							1.27	
74695-2501	25	100	25	50.00	48.00		0.76	
74695-2506							1.27	
74695-1002	10	40	10	20.00	18.00	0.76		
74695-1007						1.27		
74695-1202	12	48	12	24.00	22.00	0.76		
74695-1207						1.27		
74695-2502	25	100	25	50.00	48.00	0.76		
74695-2507						1.27		
74695-1003	10	40	10	20.00	18.00	0.76		
74695-1008						1.27		
74695-1203	12	48	12	24.00	22.00	0.76		
74695-1208						1.27		
74695-2503	25	100	25	50.00	48.00	0.76		
74695-2508						1.27		
74695-1004	10	40	10	20.00	18.00	0.76		
74695-1009						1.27		
74695-1204	12	48	12	24.00	22.00	0.76		
74695-1209						1.27		
74695-2504	25	100	25	50.00	48.00	0.76		
74695-2509						1.27		

TIN/LEAD CHART

PART NUMBER	COLUMN	NUMBER OF SIGNAL PIN	NUMBER OF SHIELD	A	B	M	Au (um) THICKNESS	Sn (um)
74695-9001	10	40	10	20.00	18.00	4.75	0.76	0.76-1.52
74695-9006							1.27	
74695-9501	12	48	12	24.00	22.00		0.76	
74695-9506							1.27	
74695-8501	25	100	25	50.00	48.00		0.76	
74695-8506							1.27	
74695-9002	10	40	10	20.00	18.00	0.76		
74695-9007						1.27		
74695-9502	12	48	12	24.00	22.00	0.76		
74695-9507						1.27		
74695-8502	25	100	25	50.00	48.00	0.76		
74695-8507						1.27		
74695-9003	10	40	10	20.00	18.00	0.76		
74695-9008						1.27		
74695-9503	12	48	12	24.00	22.00	0.76		
74695-9508						1.27		
74695-8503	25	100	25	50.00	48.00	0.76		
74695-8508						1.27		
74695-9004	10	40	10	20.00	18.00	0.76		
74695-9009						1.27		
74695-9504	12	48	12	24.00	22.00	0.76		
74695-9509						1.27		
74695-8504	25	100	25	50.00	48.00	0.76		
74695-8509						1.27		

LEAD FREE CHART

ADDED SHEET: 3

EC NO: UCP2006-1727

DRWN:CTHOMAS 2006/02/16

CHKD:JBINGHAM 2006/02/16

APPR:KMULVEY 2006/02/16

D

QUALITY SYMBOLS

▽=0

▽=0

REV

DESCRIPTION

GENERAL TOLERANCES (UNLESS SPECIFIED)

mm

INCH

4 PLACES ± --- ± ---

3 PLACES ± --- ± ---

2 PLACES ± --- ± ---

1 PLACE ± --- ± ---

ANGULAR ±1/2°

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION STYLE

MM ONLY

DRAWN BY

DATE

QWANG 2001/04/11

CHECKED BY

DATE

NMARTIN 2001/04/14

APPROVED BY

DATE

CBIXLER 2001/04/14

MATERIAL NO.

SEE TABLES

SIZE

C

SCALE

DESIGN UNITS

METRIC

THIRD ANGLE PROJECTION

TITLE

HSD SALES ASSEMBLY

5 ROW OPEN END

BACKPLANE

MOLEX

MOLEX INCORPORATED

DOCUMENT NO.

SD-74695-002

SHEET NO.

3 OF 3

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